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FIG. 1A

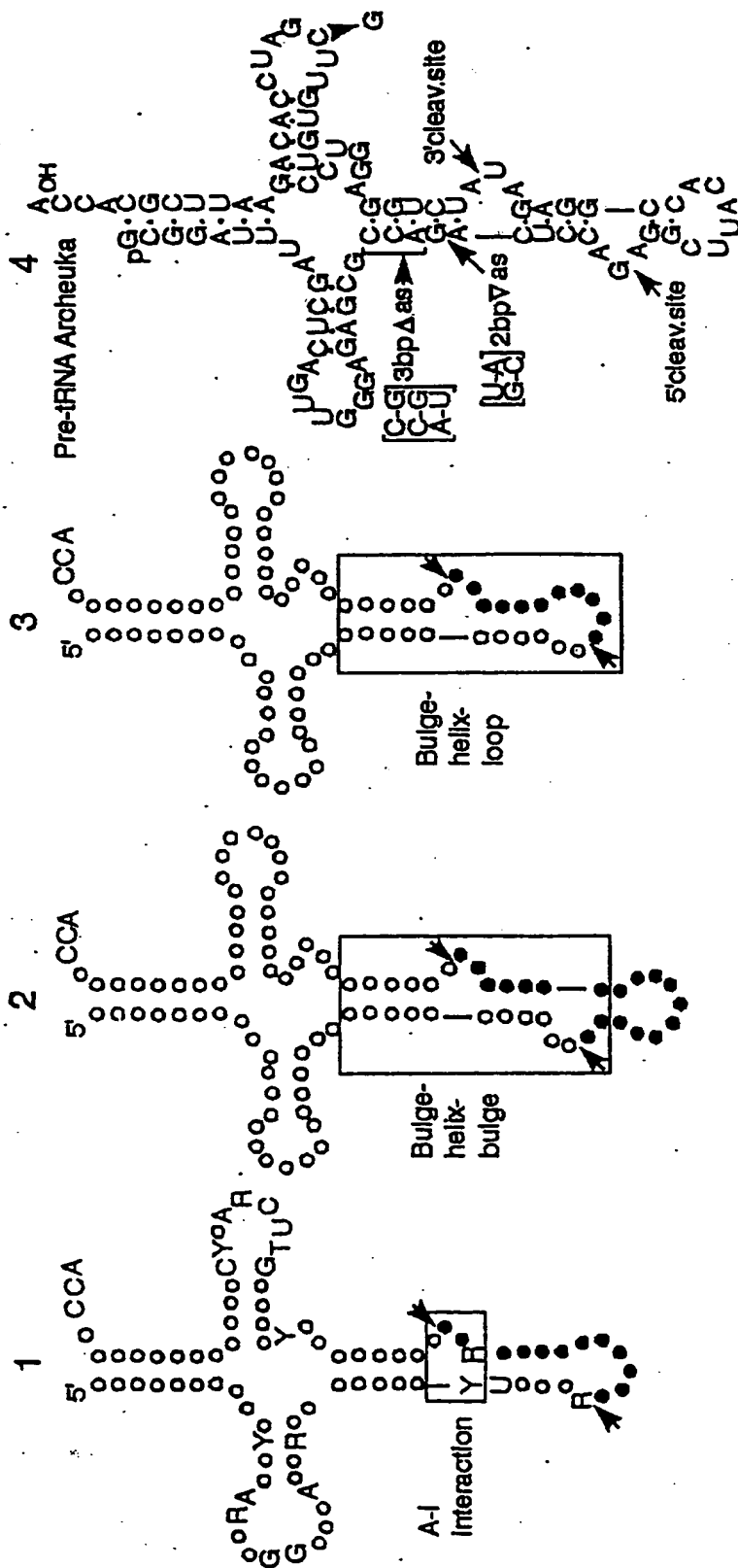


FIG. 1B

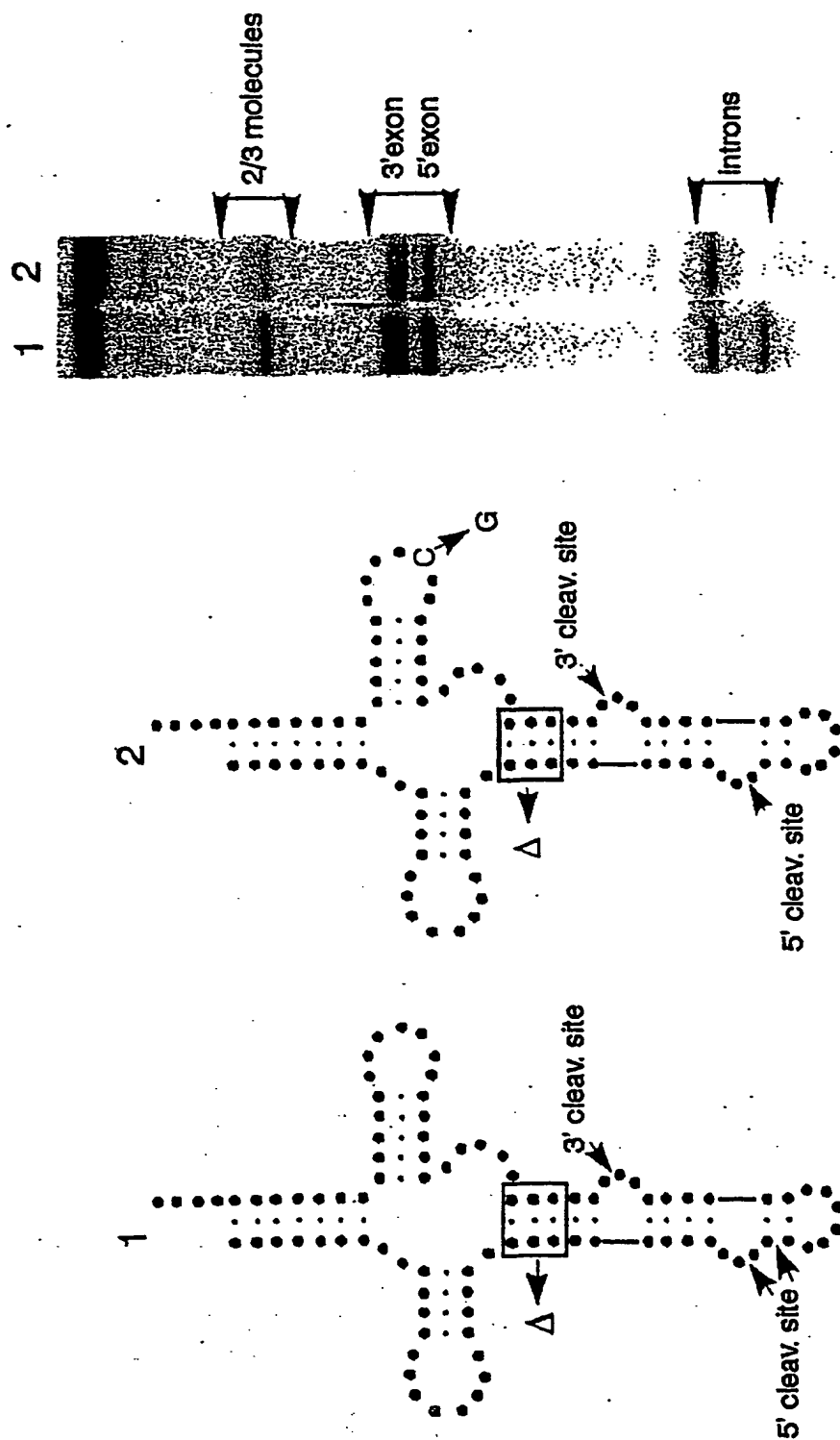


FIG. 2A

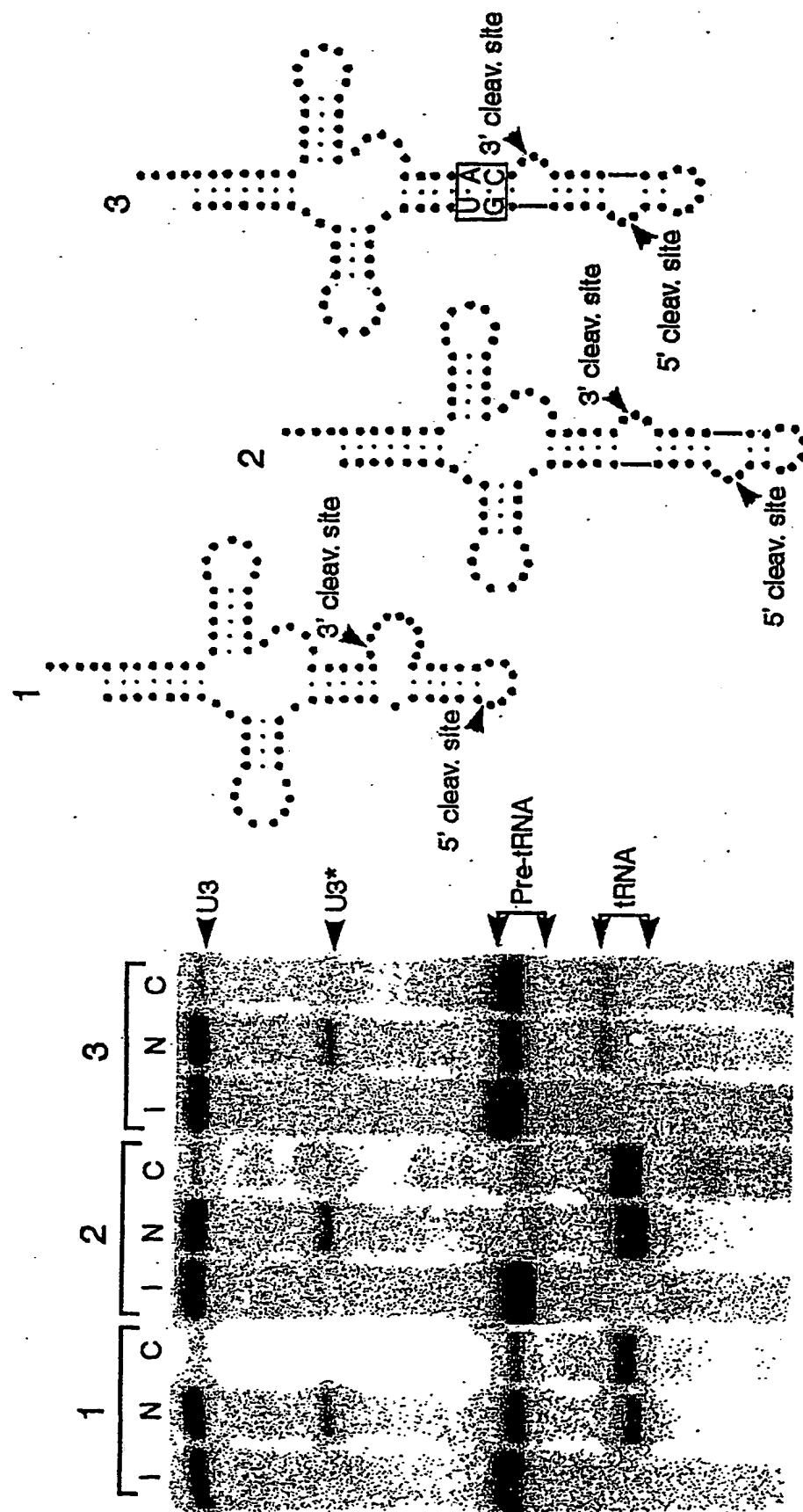


FIG. 2B

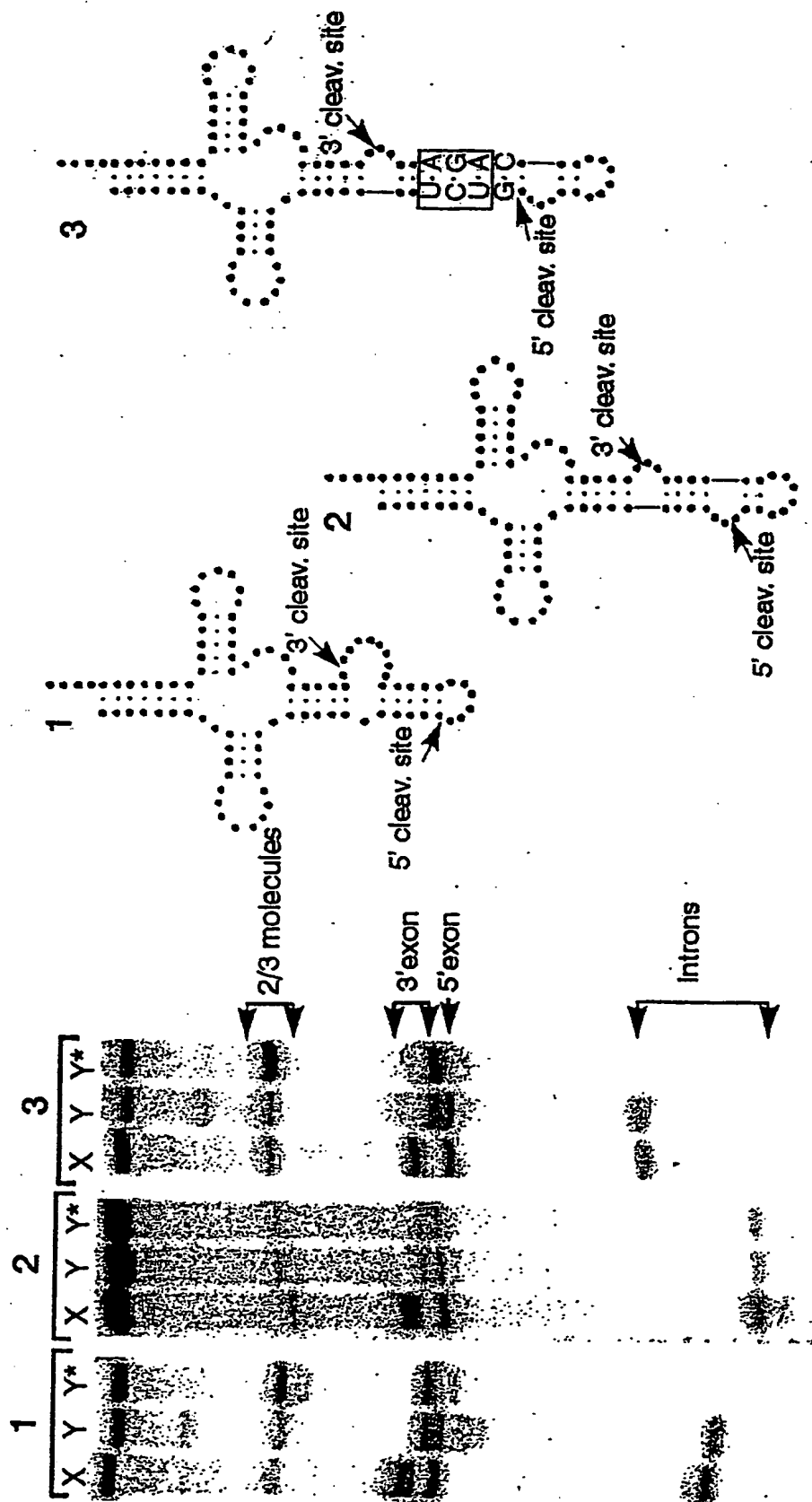


FIG. 2C

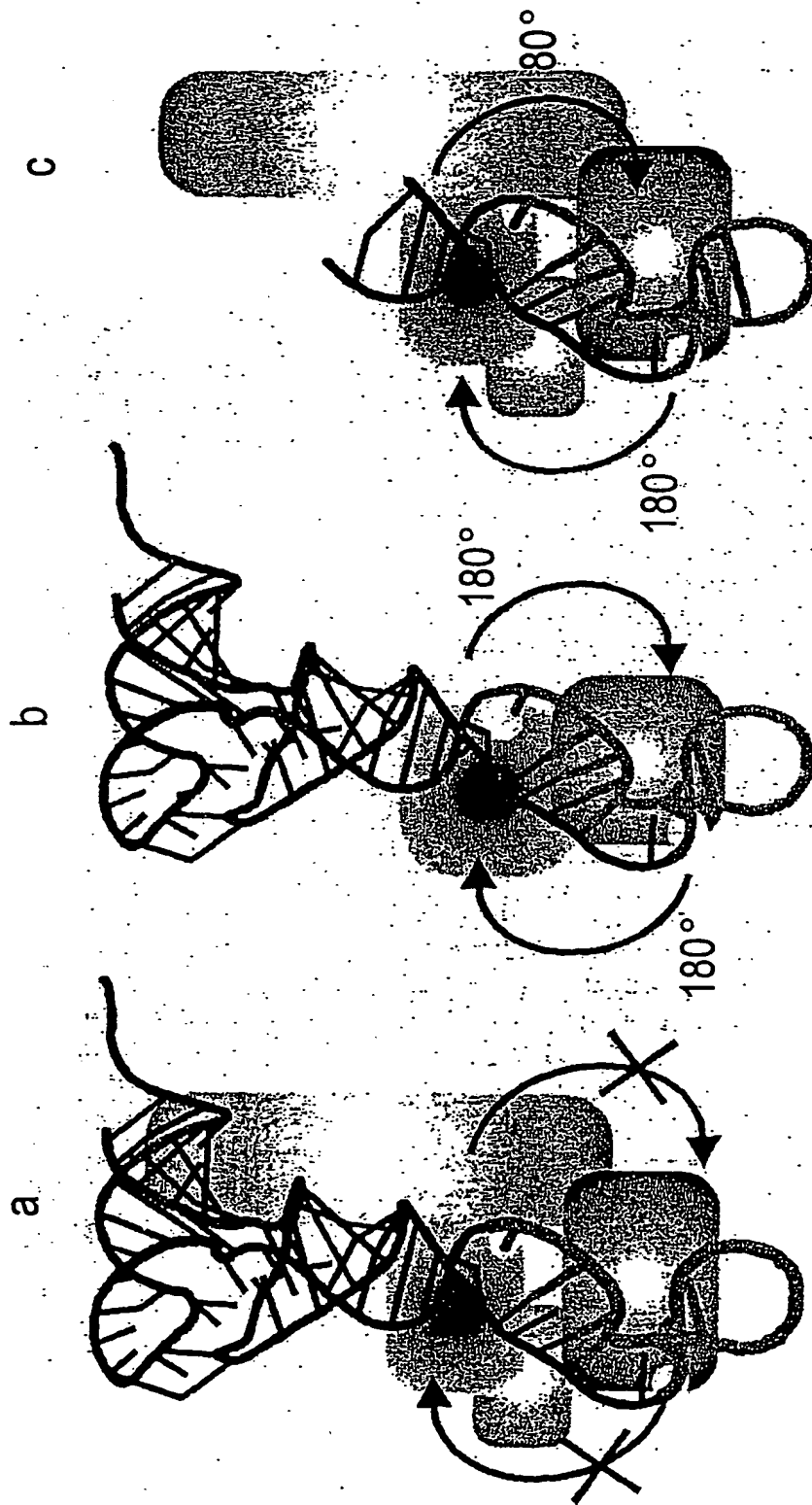


FIG. 3



BBB MEDIATED TRANS-SPLICING

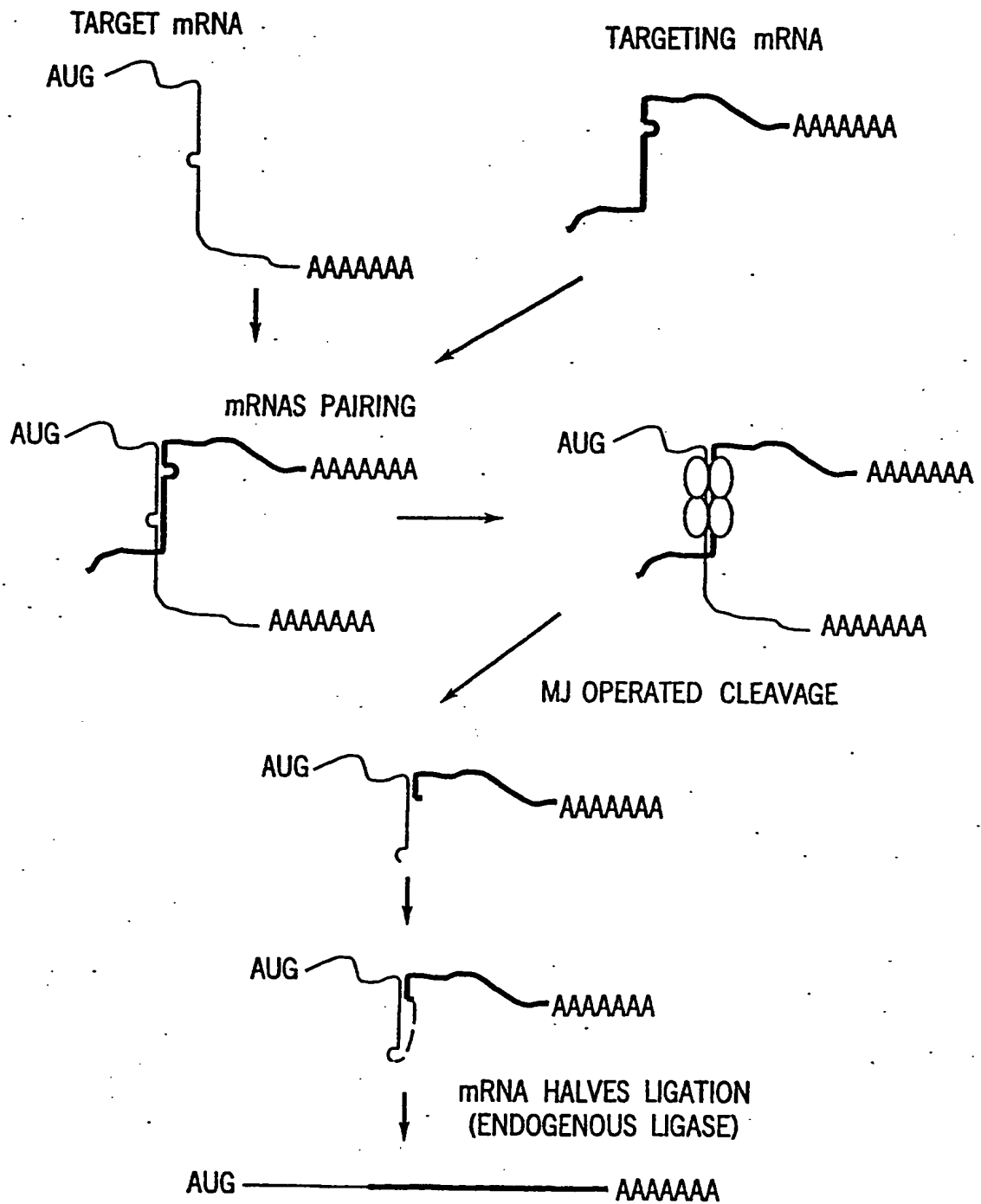


FIG. 4

BHB tagged mRNAs

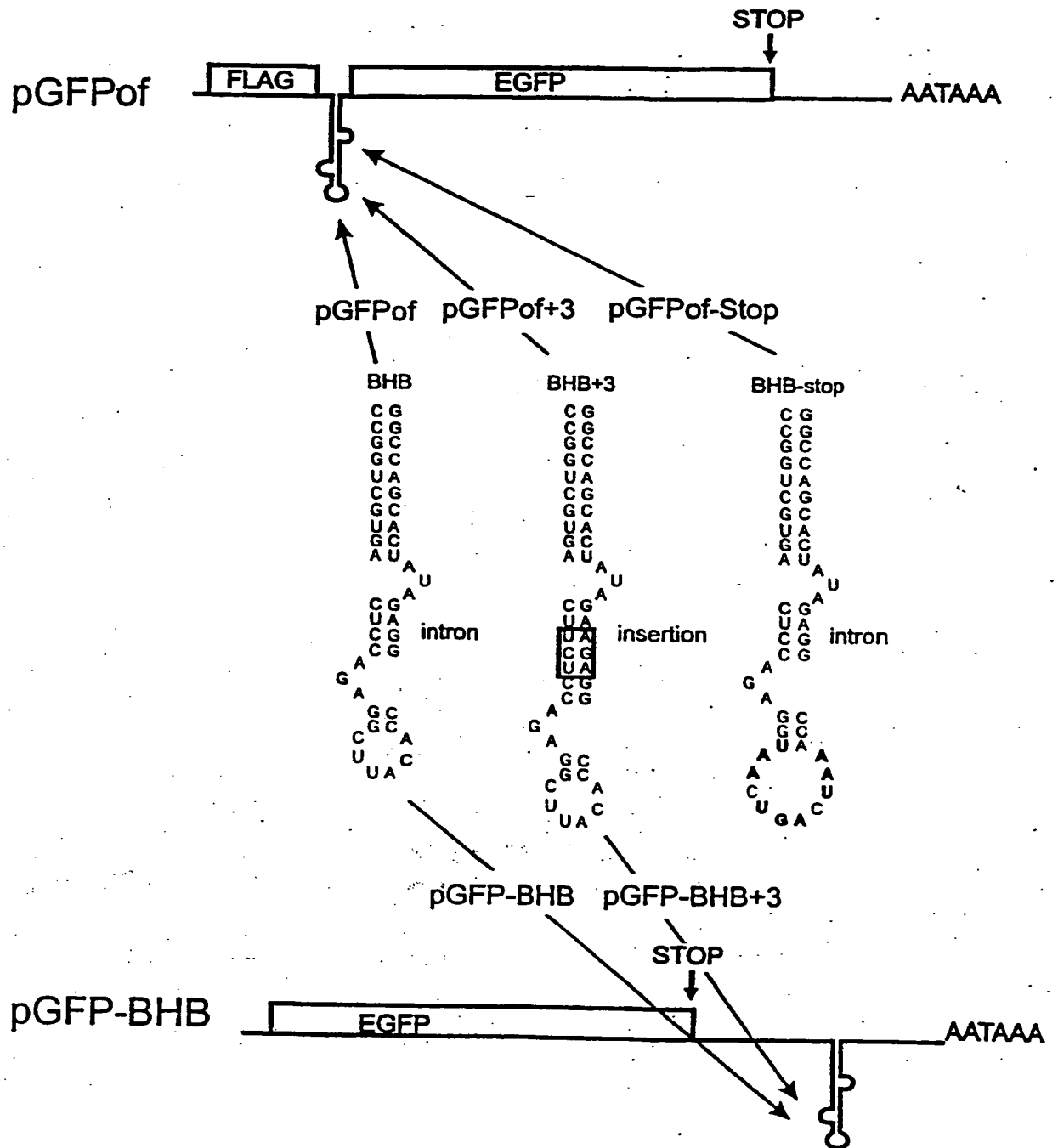
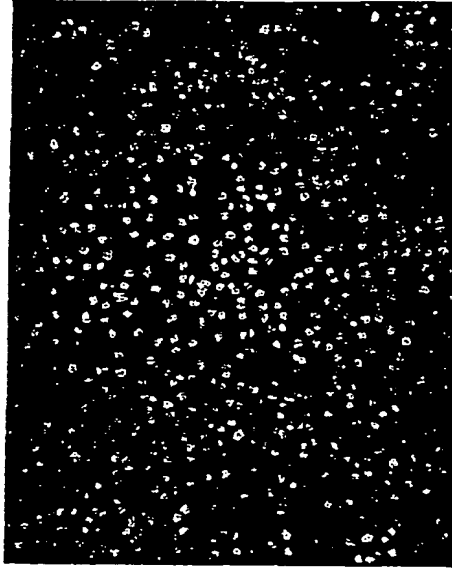


FIG. 5

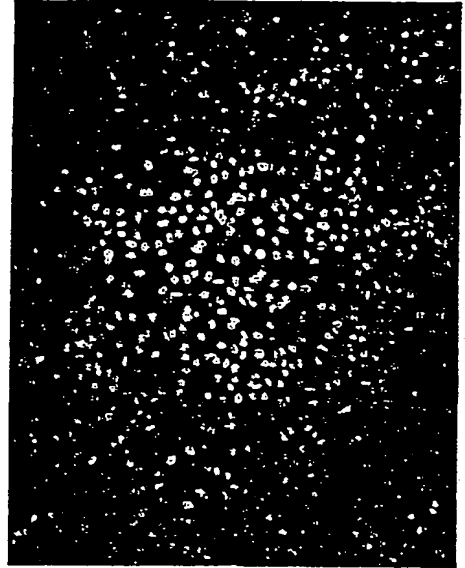
NIH3T3 Fibroblasts transfected with pGFPof and pMJ

HOECHST

pEGFP
+
pMJ



pGFPof
+
pMJ



GFP

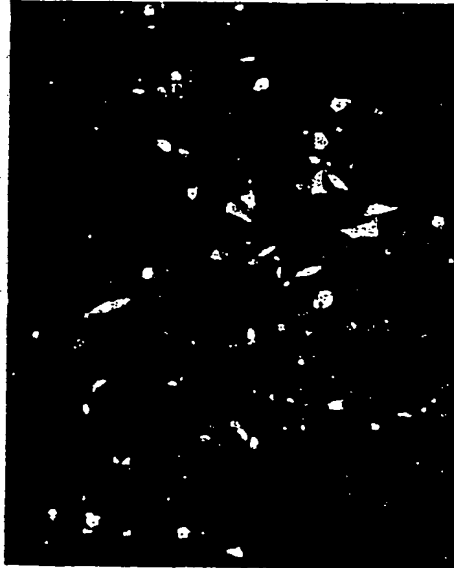


FIG. 6A

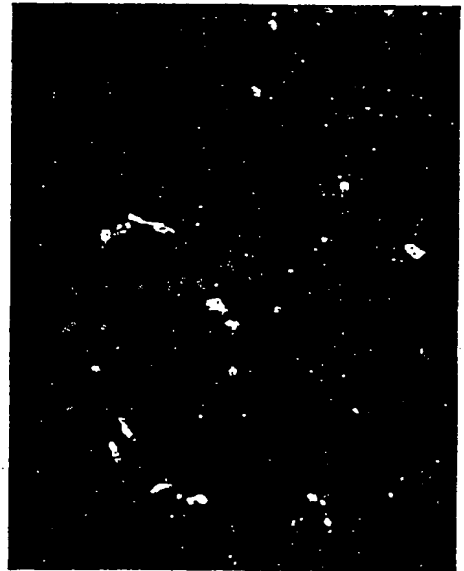
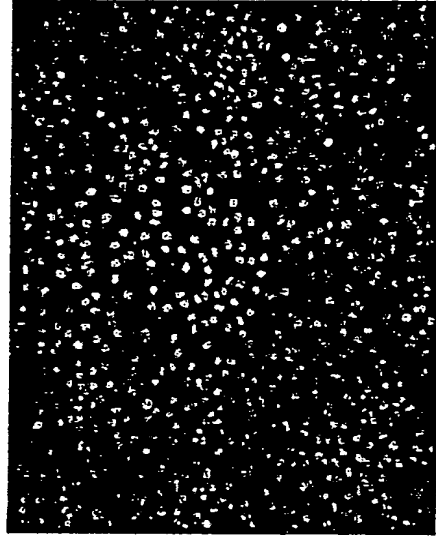


FIG. 6B

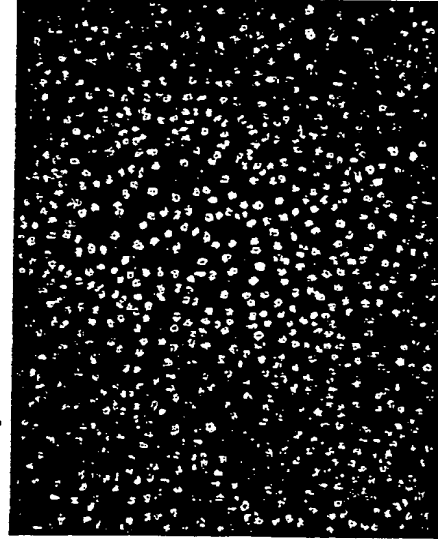
GFP

HOECHST



pGFPof
+
pMUT-MJ

FIG. 6C



pGFPof+3
+
pMJ

FIG. 6D

SPLICING ANALYSIS BY RT-PCR

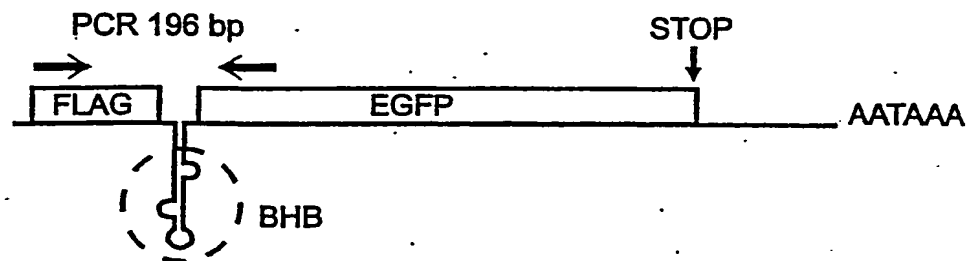


FIG. 7A

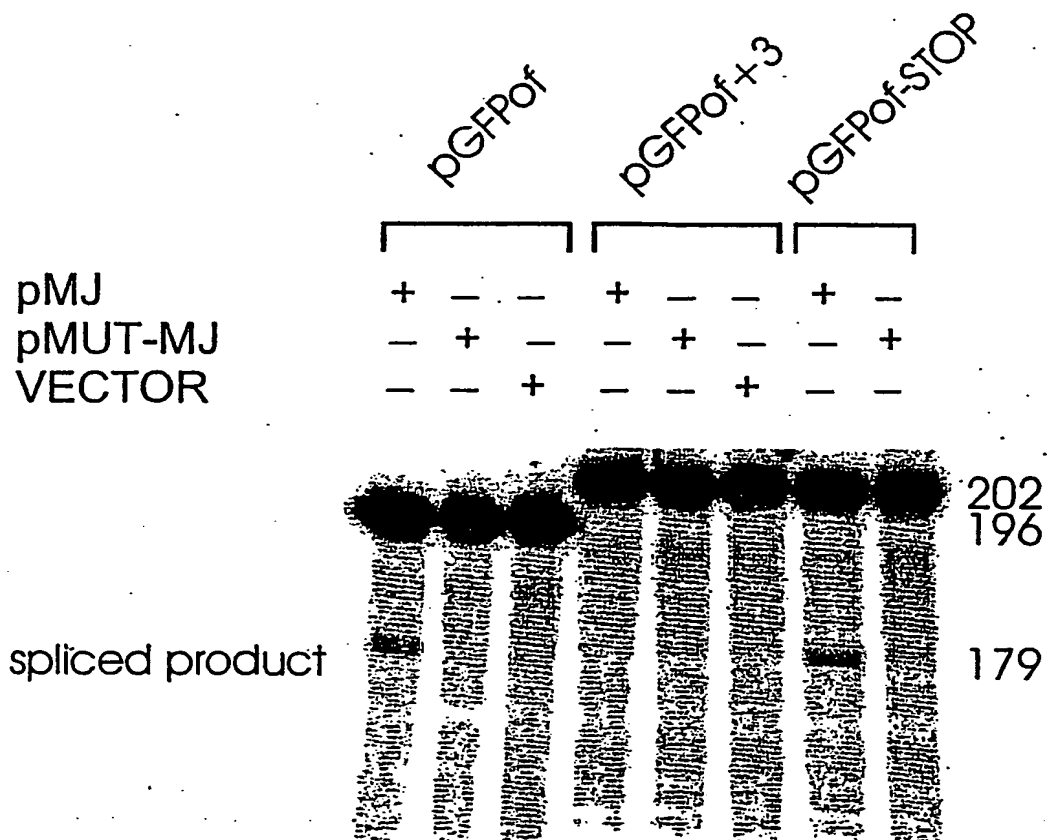


FIG. 7B

Sequence analysis of GFP of RT-PCR products

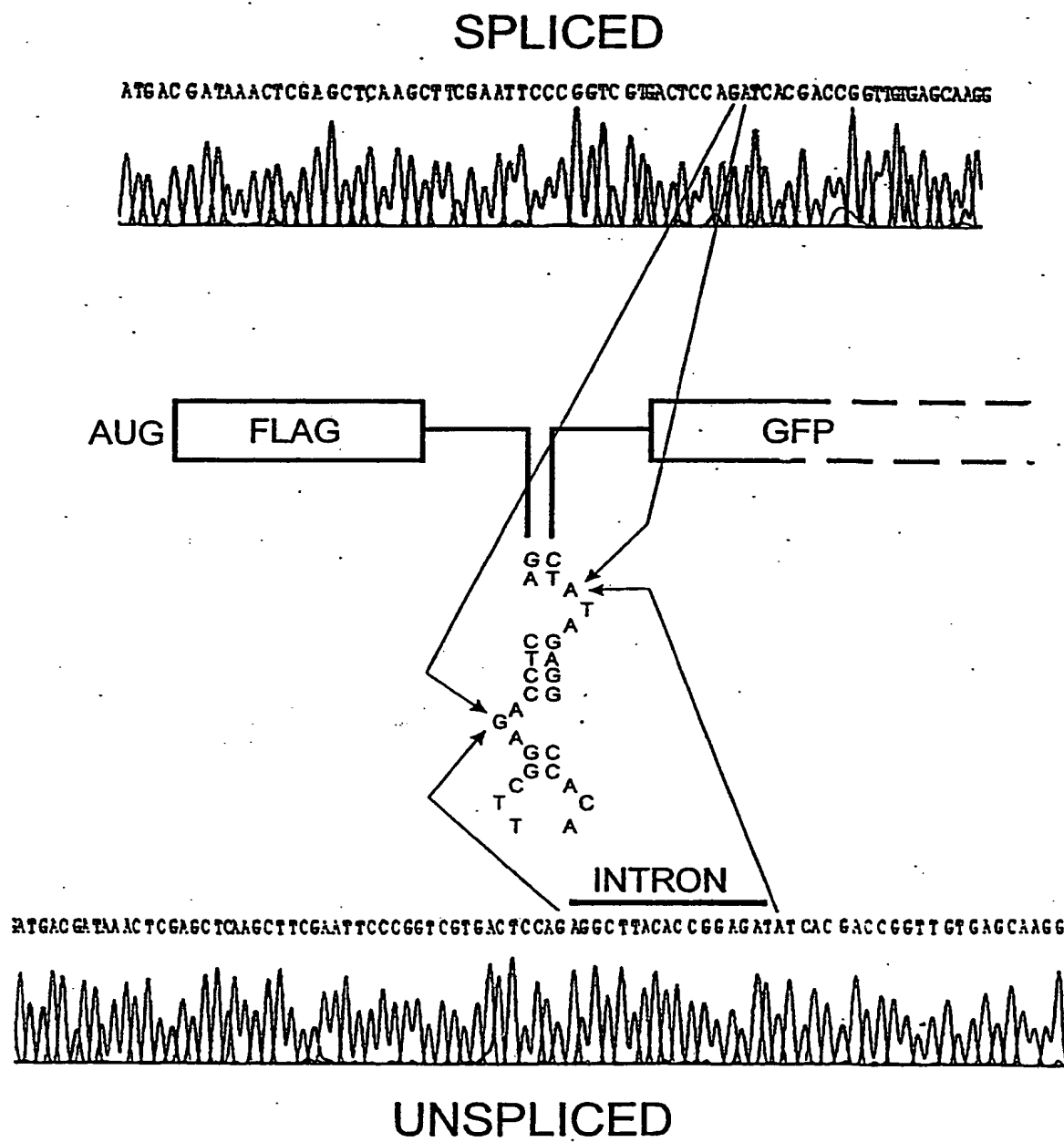


FIG. 8

Sequence analysis of GFP-BHB RT-PCR products

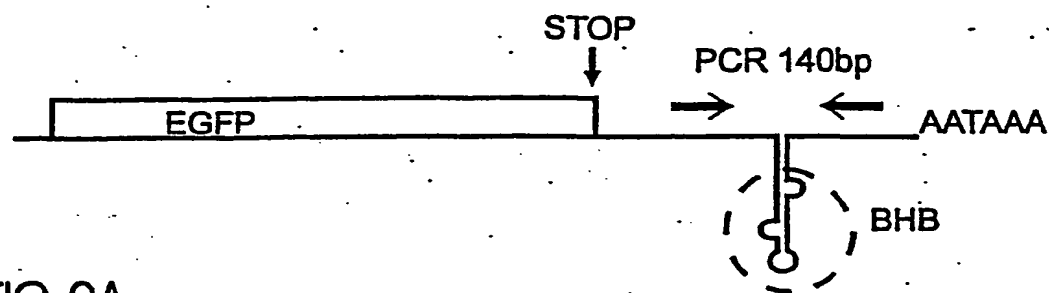


FIG. 9A

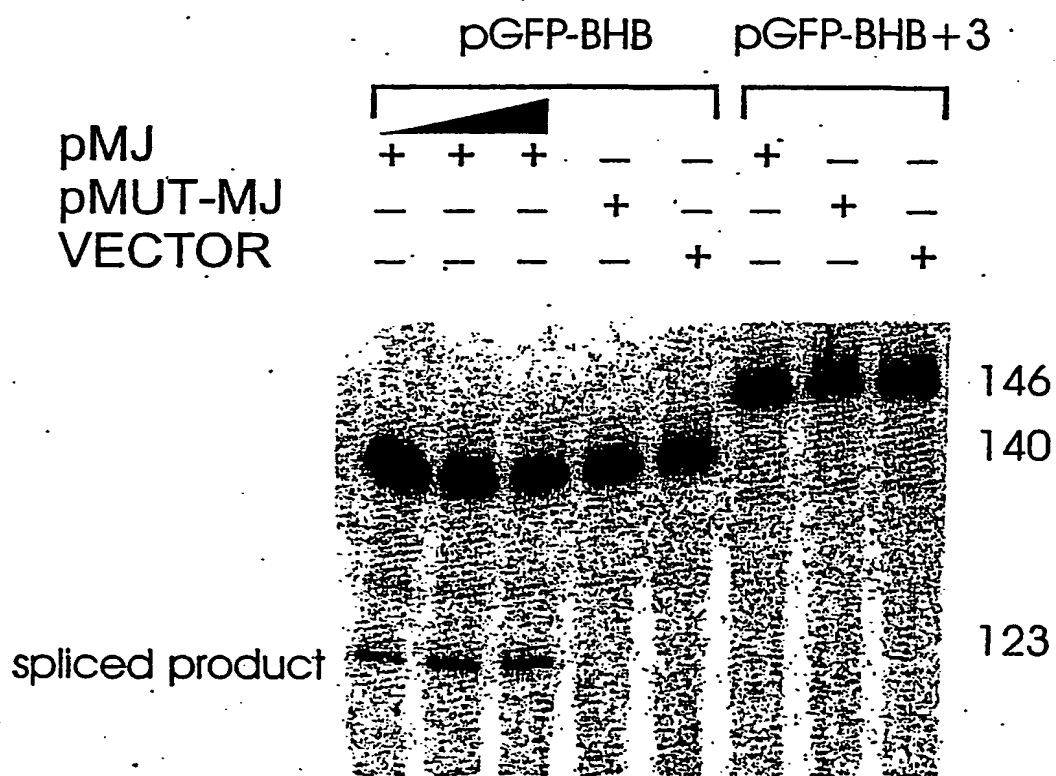


FIG. 9B

Sequence analysis of GFP-BHB RT-PCR products

SPLICED

TCCGTCTGGGCCCCCGTCCCGGTCGTGACTCCAGATCAGACCGG



GFP

AATAAA

GC
AT

AT

CTCG

GA

GC

CA

TA

intron

TCCGTCTGGGCCCCCGTCCCGGTCGTGACTCCAGAGGCTTACACCGGAGATATCAGACCGG



UNSPliced

FIG. 10

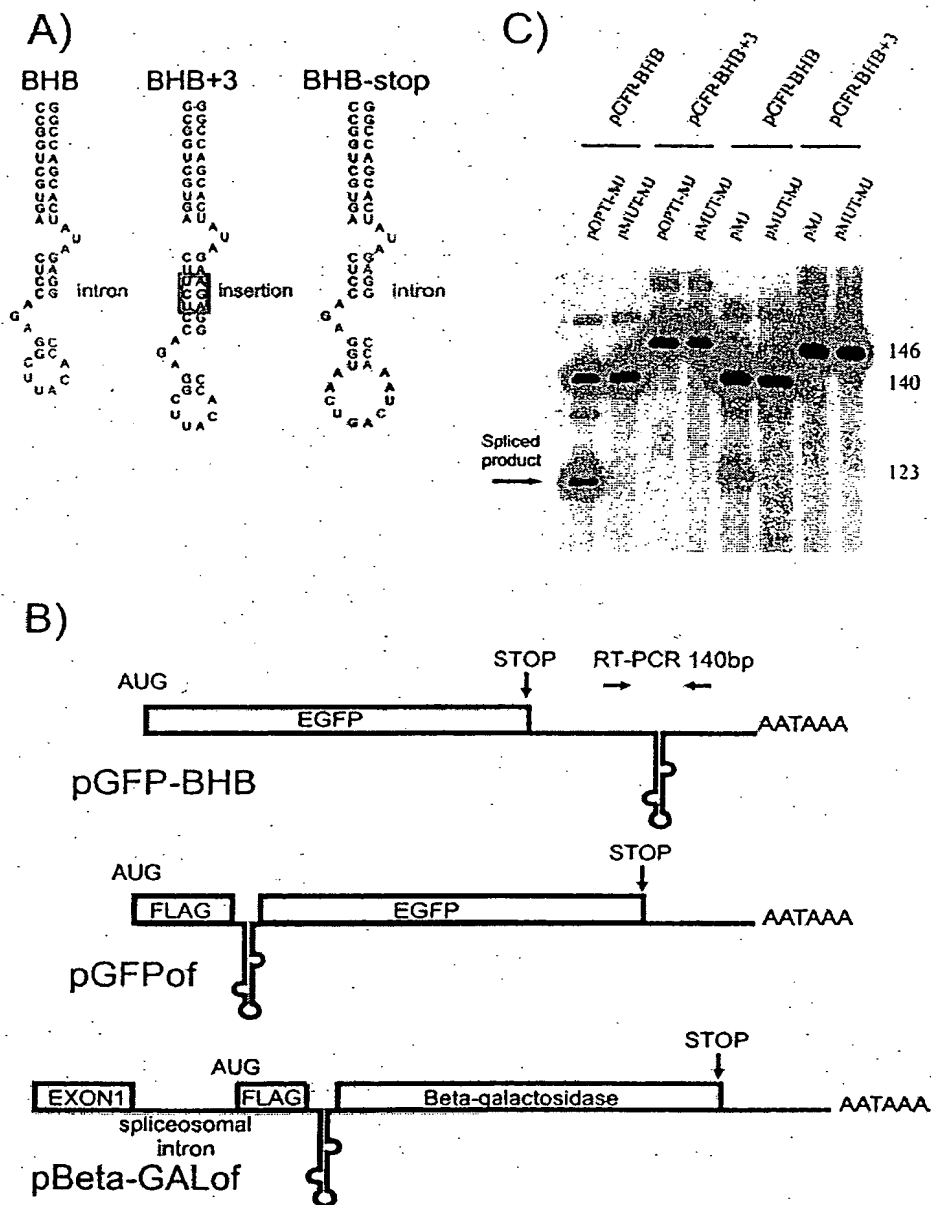
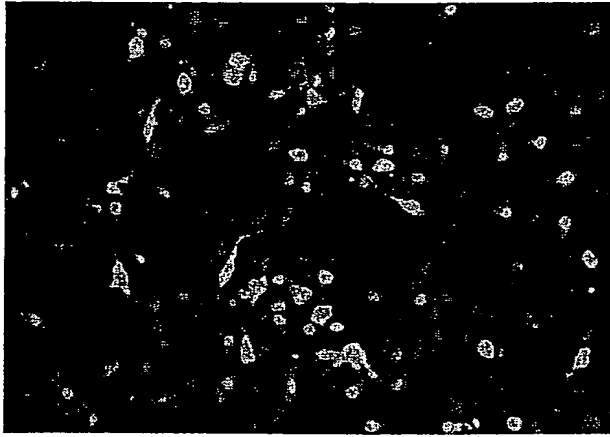


FIG. 11

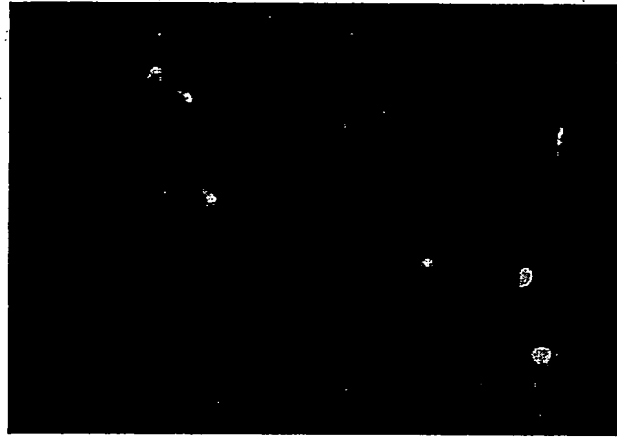
pEGFP-WT

pMJ and pGFPof

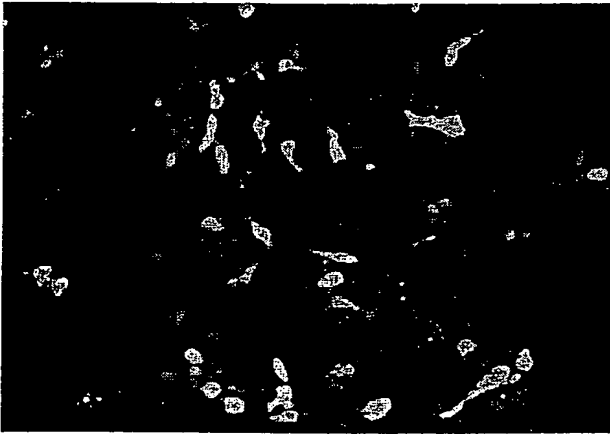
a)



b)



c)



d)



pOPTI-MJ and pGFPof

pMUT-MJ and pGFPof

FIG. 12

BHB MEDIATED TRANS-SPLICING

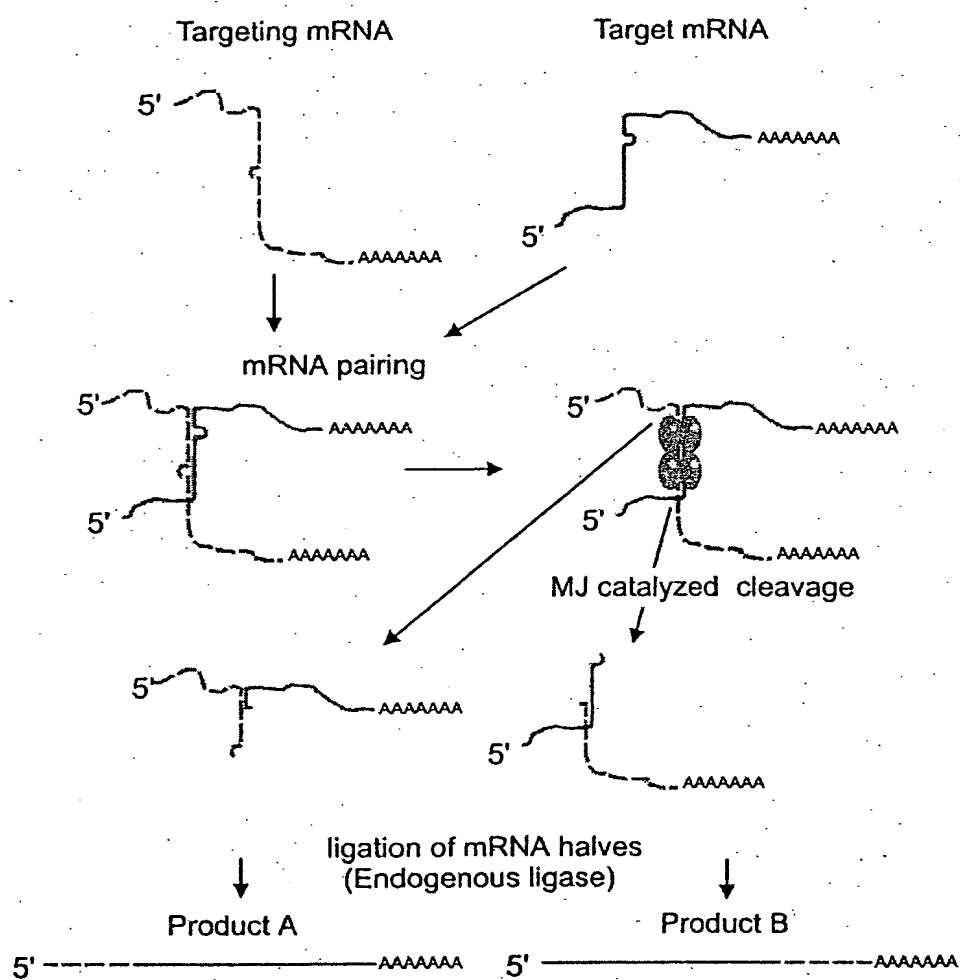


FIG. 13

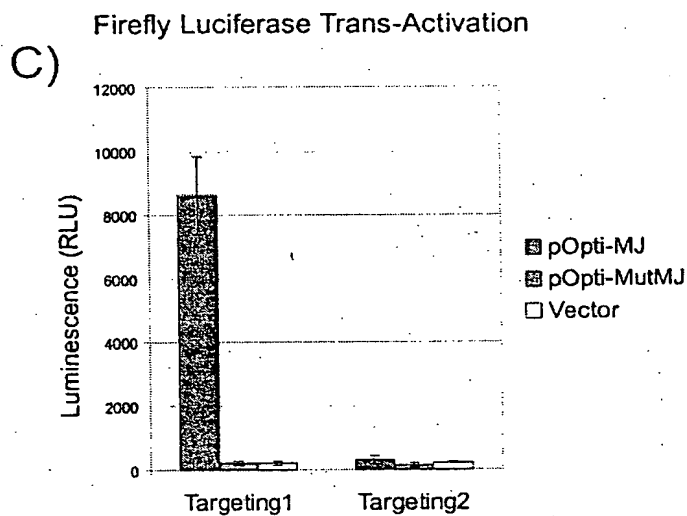
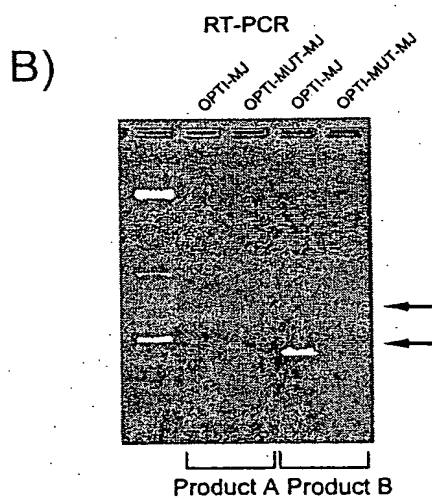
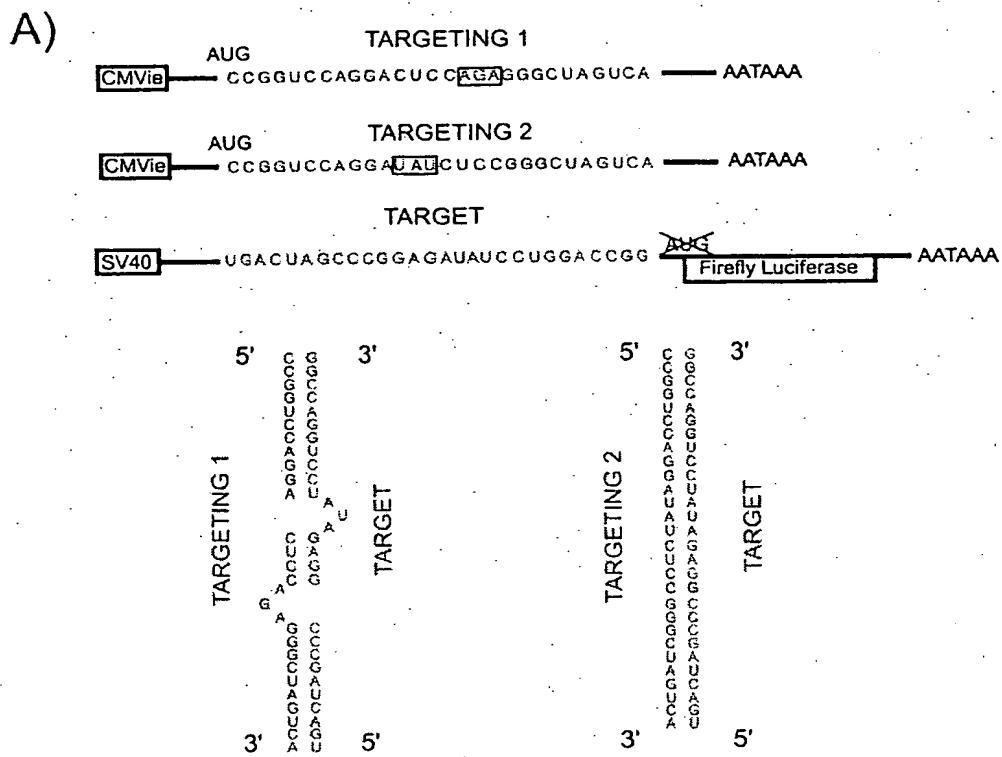
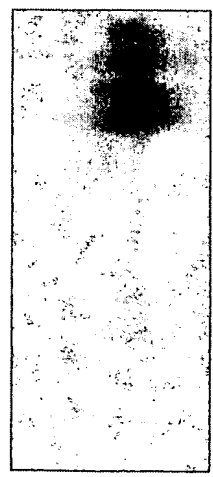


FIG. 14

L - Liver
 SM- Skeletal Muscle
 B - Brain
 S - Spleen
 K - Kidney
 H - Heart

WT	Euler Mouse						
<hr/>							
L	SM	B	L	S	K	H	SM



A

Control		WT		Euler Mouse	
<hr/>		<hr/>		<hr/>	
L	SM	L	SM	L	SM



B

Fig.15

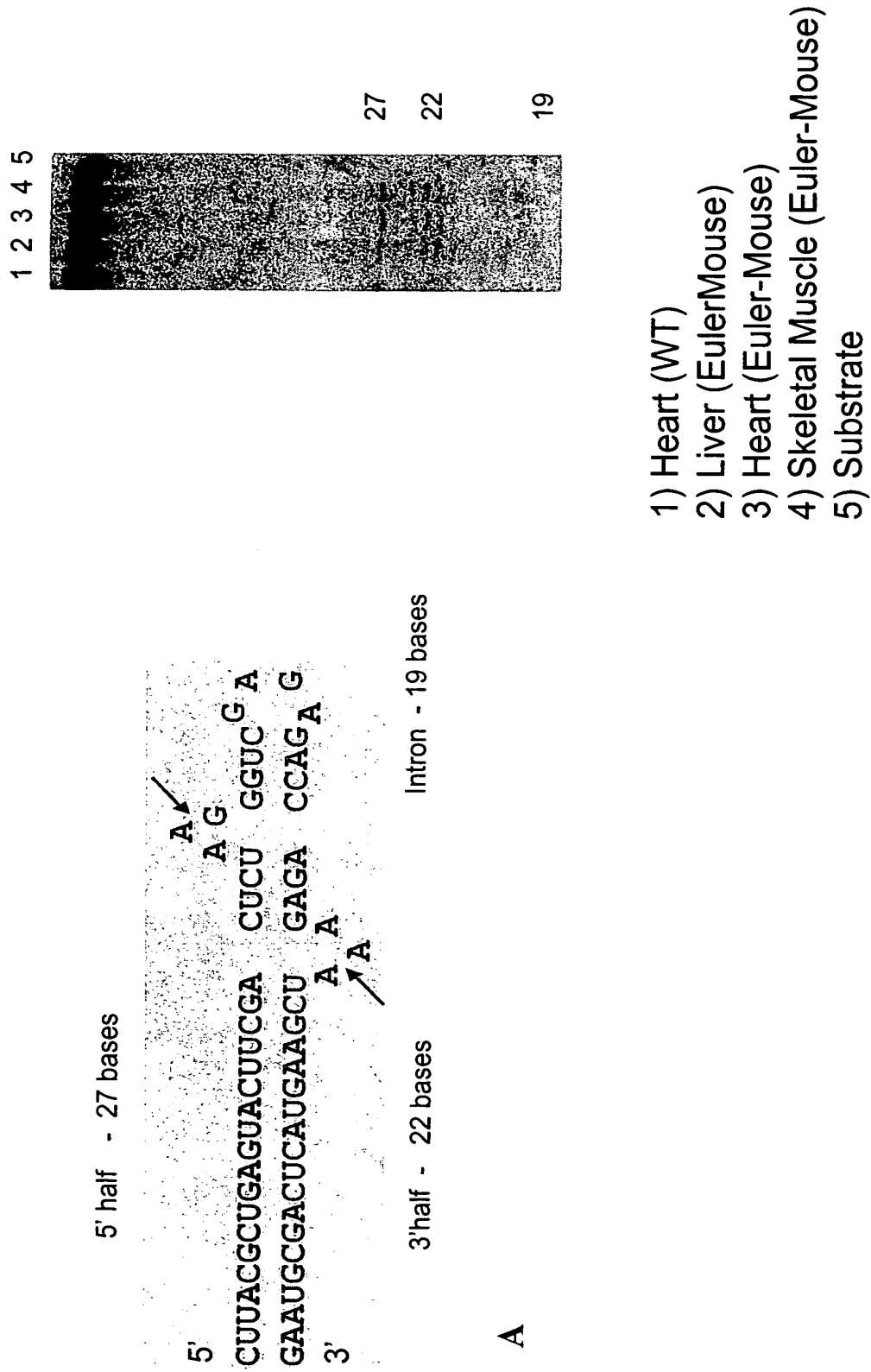


Fig.16

Mouse Liver Transfection by Tail-Vein injection of Naked DNA

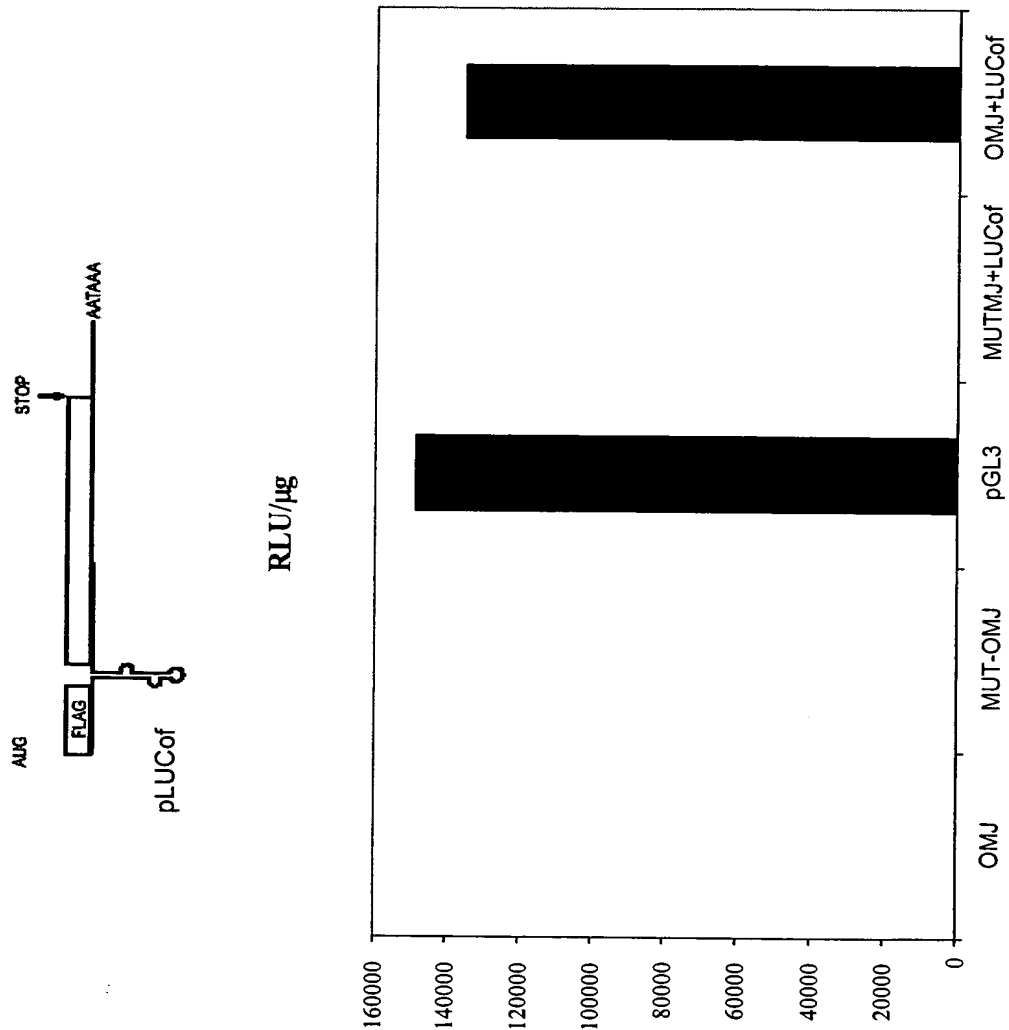


Fig.17